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Phoneme classification using Markov models

Merialdo, B., Dercouault, A., Soudoplatoff, S.

IBM France Scientific Center, Paris, France

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Abstract

An approach for supporting large vocabulary in speech recognition is to use broad phoneme classification to reduce the search to a subset of the dictionary. In this paper, we investigate the problem of defining broad phonetic classes for a given speech decoder, so that these broad phonetic classes are recognizable as possible from the speech signal. More precisely, given Hidden Markov Models of phonetic machines, we propose a similarity measure of the phonetic machines, and use a standard classification algorithm to perform classification. Three measures are proposed, and compared with manual classifications.

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